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(12) PATENT ABSTRACT

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(19) AUSTRALIAN PATENT OFFICE

(54) Title

A COMBINATION MOISTURE/TERMITE BARRIER IN SHEET FORM

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(71) Applicant(s)

WALTER EVERARD JOHN GROOM

(72) Inventor(s)

WALTER EVERARD JOHN GROOM

(57)

A combination moisture/termite barrier in sheet form comprising moisture protection membrane(s) and integrated, bonded or sandwiched poisonous or repellent chemicals.

Claim. Indefinite



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Form 10

PATENTS ACT 1952

COMPLETE SPECIFICATION

(ORIGINAL)

FOR OFFICE USE

Short Title:

Int. Cl.:

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CHILTON W.A. 6556

Complete Specification for the invention entitled: COMBINATION MOISTURE AND TERMITE BARRIER (UNDERLAY, WRAP OR O.P.C.) AND SEALING COMPONENTS

The following statement is a full description of this invention, including the best method of performing it known to me:—

Note: The description is to be typed in double spacing, pica type face, in an area not exceeding 250 mm in depth and 160 mm in width, on tough white paper of good quality and it is to be inserted inside this form.

1.

COMPLETE SPECIFICATION FOR THE INVENTION ENTITLED
COMBINATION MOISTURE AND TERMITE BARRIER (UNDERLAY, WRAP OR
D.C.P.) AND SEALING COMPONENTS.

Introductory Statement

The Combination Moisture /Termite Barrier is related to the construction industry and its allied trades. In its various forms it can be used both as a built-in component and as a protector for materials stored.

The object of the Combination Moisture/Termite Barrier is to protect buildings and materials from both moisture and attack from termites or other pests.

- 1o The invention is a fabricated membrane that is placed under ground slabs, through walls or elsewhere as protection is required. It combines the functions performed by the sheet plastic underlay, wrap or damp proof course (being a moisture barrier) and the treatment of soils (being the termite barrier).

This method of providing protection would have many advantages over traditional methods now employed: especially with respect to the human and environmental considerations

Termite protection would be provided using a simple, dry, site process.

Chemical spraying of the soil under most buildings could be eliminated.

With correct detailing and application, protection would be permanent and retreat

- 2o ments (as required with traditional protection methods) would be eliminated.

Manufacture of the membranes and associated elements would be in a factory under controlled conditions. There would be no risk to following trades- people; eliminating the cause of some delays in construction.

Protection could be extended past the limits set by the traditional spraying methods

by the integration of the slab underlay, cavity protection (d.p.c.) and any external membrane required (ie brick paving).

This method of protection could result in a very substantial reduction in the quantity of chemicals being sprayed into the atmosphere and into the ground and there would be very substantial cost savings over the traditional protection methods

3o used due to the:

I) Combining of the two construction elements (moisture and termite protection).

II) Accurate control of chemicals required during the manufacturing process.

III) Elimination of chemical wasted during the traditional spraying on building sites (misuse, accidents, vapourisation)

IV) Elimination of the possibility of under or over treatment of the ground under buildings.

V) Need for a simple, visual inspection to define the areas covered by the barrier.

VI) Barrier's useful life being equal to the life of that being protected, without the requirement of retreatment.

4o Description

The combination Moisture/Termite Barrier is sheet or strip barriers placed in a similar manner to the conventional moisture membranes or damp proof courses.

The invention can be constructed in monolithic, laminated or sandwich form. The poison or repellent (a compatible chemical solution or powder) providing the termite protection is integrated with, bonded to or sandwiched between membrane/s providing the moisture protection. All laps and penetrations would be sealed with a purpose-made tape, or purpose made, pretreated moulded fittings offering the same protection to form an unbroken barrier.

The preferred forms of the invention are:

5o Integration/Monolithic (Fig 1)

In this form the flexible underlay quality, or damp proof course quality, moisture barrier is impregnated with the repellent/poison.

Bonding (Fig 2)

In this form the barrier is constructed in two layers. One layer being the agent impregnated with the repellent/poison, the other a flexible, underlay quality or damp proof course quality, moisture barrier. Both layers are bonded together.

Sandwich (Fig 3)

In this form the barrier is constructed in three layers. The outer layers are flexible, underlay quality or damp proof course quality moisture barriers. The sandwiched

6o layer being the agent impregnated with the repellent /poison. All layers are bonded together. Bonding may be mechanical or heat process.

Tapes

Narrow strips and tapes are constructed in a similar manner to the sandwich form.

One outer layer (protective veneer) is peeled back and removed. The exposed repellent/poison (sandwich layer) is applied to joins and openings and sheets and around penetrations to provide an unbroken barrier.

Purpose Made Fittings

Moulded, purpose made fittings to suit the various sized pipes and ducts penetrating the barrier are preformed and pretreated. These can be placed and sealed 7o against the barrier and penetrations.

The claims defining the invention are as follows:

Claim 1

The Combination Moisture/Termite Barrier combines the two elements, moisture protection and termite protection, into the one element, the placing of which provides a permanent, unbroken barrier to moisture, termites and other pests.

Claim 2

The Combination Moisture/Termite Barrier replaces the traditional flexible, sheet, moisture barrier and the traditional chemical treatment of soil and materials for termite protection.

80 Claim 3

The flexible, underlay quality and damp proof course quality membranes provide the moisture and handling protection while the termite protection is provided by an agent impregnated with a compatible chemical solution or powder.

Claim 4

The single element is formed by mechanical or heat bonding the components of the Combination Moisture/Termite Barrier together.

Claim 5

The Combination Moisture/Termite Barrier is placed in a similar manner to the traditional sheet plastic moisture barrier, wrap or damp proof course.

90 Claim 6

The Combination Moisture/Termite Barrier is formed into a continuous barrier by sealing all openings against penetrations and sealing over all laps in sheets or strips using purpose made and pretreated sealing tapes and purpose made fit -

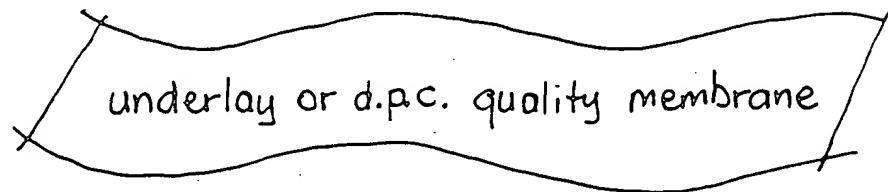
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tings.

Dated this Twenty Third day of January, 1990

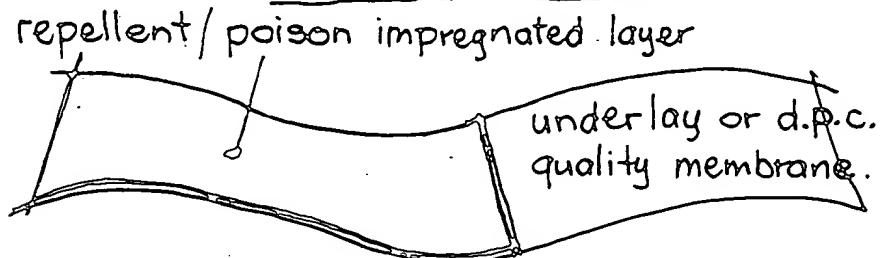
WALTER FERRARI JR. CIRCUIT
Name of Applicant.

Fig 1 Integration



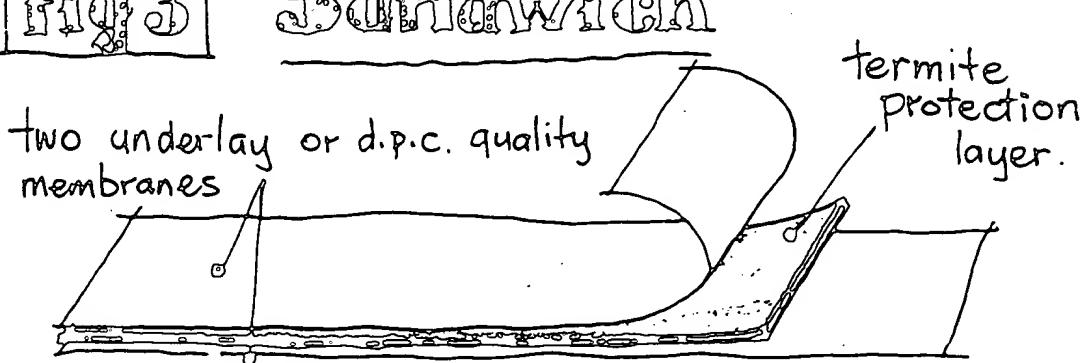
* Termite protection integrated in manufacture of the moisture barrier.

Fig 2 Bonding



* Termite protection bonded to surface of membrane.

Fig 3 Sandwich



* Repellent/poison impregnated layer between two underlay or d.p.c. quality membranes.

Combination

Moisture / Termite Barrier

Design: W. Groom.

COMMONWEALTH OF AUSTRALIA

Patents Act 1952

APPLICATION FOR A STANDARD PATENT
OR A STANDARD PATENT OF ADDITIONInsert full
name(s) of
applicant(s)

(71) Name..... WALTER EVERARD JOHN GROOM

Insert address(es)
of applicant(s)

of loc 6251 KEENAN ROAD CHIDLLOW W.A.

Insert title
of invention(54) hereby apply for the grant of a standard patent patent of addition for an invention entitled SHEET, PLASTIC,
COMBINATION MOISTURE AND TERMITE BARRIER (UNDERLAY
OR WRAP) AND SEALING TAPE.
which is described in the accompanying provisional complete specification.Tick appropriate
box)Insert name of
actual inventor

(72) The actual inventor(s) of the said invention is/are.....

WALTER EVERARD JOHN GROOM, Architect

Insert address
for service of
notices in
Australia(74) My/our address for service is. 9- BOX 4
P.O. CHIDLLOW 6556

Attorney Code.....

For Convention
applications onlyFO01264
W.E.J. GROOM
At 1751 EST or

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Details of basic application(s)-

(31) NUMBER	(33) COUNTRY	ISO CODE	(32) DATE OF APPLICATION
65-00	25/01/89		

For further
applications only(62) (Only to be used in the case of a further application made by virtue of Section 51)
Number of original application.....

Person by whom made.....

For patents of
addition only(61) (Only to be used in the case of an application for a patent of addition)
I request that the patent may be granted as a patent of addition applied for onApplication No..... Patent No.....
in the name of.....I request that the term of the patent of addition be the same as that for the main
invention or so much of the term of the patent for the main invention as is unexpired.Insert day, month
and year form
signed

Dated this 25th day of January 1989

Signature of
applicant or
Australian
attorney*Walter Groom*
(Signature)

TO: THE COMMISSIONER OF PATENTS

This form must be accompanied by either a provisional specification (Form 9 and true copy) or by a
complete specification (Form 10 and true copy).

DECLARATION IN SUPPORT OF AN APPLICATION FOR A PATENT

In support of the Application made by **WALTER EVERARD JOHN GROOM, Architect.**

for a patent for an invention entitled **SHHEET, PLASTIC, COMBINATION MOISTURE AND TERMITE BARRIER (UNDERLAY OR WRAP) AND SEALING TAPE**

**1. WALTER EVERARD JOHN GROOM
of loc 6251, KEENAN ROAD, CHIDLAW, W.A. 6556**

do solemnly and sincerely declare as follows:-

1. I am the applicant for the patent.

(or, in the case of an application by a body corporate)

I am authorized by

the applicant for the patent to make this declaration on its behalf.

2. I am the actual inventor of the invention.

(or, where a person other than the inventor is the applicant)

2

or

I am the actual inventor of the invention and the facts upon which I am the is entitled to make the application are as follows

Declared at **Perth** this **25th** day of **January** **1989**

Walt Groom.
(Signature of Declarant)

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THE COMMISSIONER OF PATENTS.